U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS
WASHINGTON

JHD:ANK
I-6

Letter
Circular
LC692

Information Section
National Bureau of Standards
Washington, D.C.

RADIO:

Publications by the Staff of the National Bureau of Standards.

May 19, 1942.

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(Supersedes
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General Information

Some of the publications in this list have appeared in the regular series of publications of the Bureau, and others in various scientific and technical journals. Unless specifically stated, papers are not obtainable directly from the National Bureau of Standards.

Where the price is stated, the publications can be purchased from the Superintendent of Documents, Government Printing Office, Washington, D.C. The prices quoted are for delivery by mail to addresses in the United States and its possessions and in certain foreign countries which extend the franking privilege. In the case of all other countries, one-third the cost of the publication should be added to cover postage. Remittances should be made either by coupons (obtainable from the Superintendent of Documents in sets of 20 for $1.00 and good until used), or by check or money order payable to the "Superintendent of Documents, Government Printing Office" and sent to him with order, or by cash at the sender's risk.

Publications marked "Free" are mimeographed pamphlets obtainable from the National Bureau of Standards without charge.

Publications marked "OP" are out of print, but, in general, may be consulted at technical libraries.

For papers in outside scientific or technical journals, the name of the journal or the organization publishing the article is given in abbreviated form, with the volume number (underscored), page, and year of publication, in the order named. The Bureau can not supply copies of these journals, or reprints from them, and it is unable to furnish information as to their availability or price. They, too, can usually be consulted at technical libraries. Inquiries for copies of such papers should be addressed directly to the publisher of the journal at the address given in list below.

This list includes all publications since Jan. 1, 1924, and also the publications earlier than 1924 issued by the Bureau itself of which copies are still available.

The Bureau does not maintain a mailing list for distribution of its radio publications as issued. Persons who wish to keep in touch with the Bureau's radio publications should subscribe to the "Technical News Bulletin", a monthly pamphlet giving news on the Bureau's scientific and engineering work and announcements of all new publications. Subscriptions should be sent to Superintendent of Documents, Government Printing Office, Washington, D.C. The price is 50 cents per year for subscribers in the United States.

The monthly Journal of Research of the National Bureau of Standards contains the Bureau's Research Papers on all subjects.

Subscriptions should be sent to Superintendent of Documents, Government Printing Office, Washington, D.C. The price is $3.50 per year for subscribers in U.S.A.

All publications of the Bureau on all subjects, including those which are out of print, are listed in Circular C24, "Publications of the National Bureau of Standards", and the supplements thereto. The Circular and the set of supplements can be purchased for 55 cents, from the Superintendent of Documents, Copies may be consulted at technical libraries in the larger cities.

Series letters with serial numbers are used to designate Bureau publications:

S = "Scientific Paper". S1 to S329 are "Reprints" from the Bulletin of the Bureau of Standards." S330 to S572 were published as "Scientific Papers of the Bureau of Standards". This series was superseded by the "Bureau of Standards Journal of Research" in 1928.

T = "Technologic Paper". T1 to T370. This series superseded by "Bureau of Standards Journal of Research" in 1928.

RP = "Research Paper". These are reprints of articles appearing in the "Bureau of Standards Journal of Research" and in the "Journal of Research of the National Bureau of Standards", the latter being the title of this periodical since July 1934 (Volume 13, number 1).

C = "Circular".

H = "Handbook".

M = "Miscellaneous Publication."

LC= "Letter Circular", a mimeographed pamphlet obtainable from the National Bureau of Standards without charge.

The underlined topics used as center-headings below are not the names of publications; they are general subjects given merely for convenience of classification of the various publications. The numbers under these topics are classification numbers according to the decimal classification system; and are not numbers by which any publications are known or ordered. A complete description of the classification system is given in Bureau Circular No.385, "Classification of Radio Subjects; An Extension of the Dewey Decimal System," now out of print, but available for consultation in technical libraries; it was reprinted in Proceedings of the Institute of Radio Engineers 18, 1433 (1930).

Addresses of Publishers of Journals

Aeronautical World, 1709 W. 8th St., Los Angeles, Calif.
The American Yearbook, The MacMillan Co., New York City.
Annals of the American Academy of Political and Social Science, 3457 Walnut St., Philadelphia, Pa.
Bulletin of the National Research Council, National Academy of Sciences, Washington, D.C.
Bulletin of the American Meteorological Society, Blue Hills Observatory, Harvard University, Milton, Mass.
Electrical World, 330 W. 42nd St., New York City.
Electronics, McGraw-Hill Bldg., 330 West 42nd St., New York City.
The Engineering Foundation, 29 West 39th St., New York City.
Engineers and Engineering, 124 W. Polk St., Chicago, Ill.
Jahrbuch d. drahtlosen Telegraphie, M. Krayn, Genthiner Strasse, 32, Berlin, Germany.
Journal of the Aeronautical Sciences, 5341 RCA Bldg., Rockefeller Center, New York City.
Journal of the Franklin Institute, Franklin Institute of the State of Pennsylvania, Philadelphia, Pa.
Journal of the Optical Society of America and Review of Scientific Instruments, American Institute of Physics, 11 E.38th St., New York City.
Journal of the Washington Academy of Sciences, Washington Academy of Sciences, Washington, D.C.
Journal of the Western Society of Engineers, 205 W. Wacker Drive, Chicago, Ill.
Mechanical Engineering, 29 W. 39th St., New York City.
National Aeronautical Association Review, 1909 Mass. Ave., N.W. Washington, D.C.
Nature, MacMillan Co. Ltd., St.Martin St., London, W.C.2, England.
L'Onde Electrique, La Société des Amis de la TSF, Paris, France.
Papers of the General Assembly held in Washington, International Scientific Radio Union; International Scientific Radio Union, Brussels, Belgium.
Papers of the International Civil Aeronautics Conference, Supt. of Documents, Government Printing Office, Washington, D.C.
Papers of the Seventeenth Annual Safety Congress, National Safety Council, Chicago, Ill.
Physical Review, American Institute of Physics, 11 E.38th St., New York City.
Proceedings of the Institute of Radio Engineers, 330 W. 42nd St., New York City.
Proceedings of the National Academy of Sciences, National Academy of Sciences, Washington, D.C.
Proceedings of the Third Pan-Pacific Science Congress, National Research Council of Japan, Tokyo, Japan.
QST, American Radio Relay League, W. Hartford, Conn.
Radio, 1300 Kenwood, Santa Barbara, Calif.
Radio Engineering, Bryant Publishing Co., 19 E.47th St.,New York,N.Y.
Radio News, Ziff-Davis Pub.Co., 608 S.Dearborn.St.,Chicago, Ill.
Science, The Science Press, Grand Central Terminal, New York City.
Scientific American, 24 West 40th St., New York City.
Terrestrial Magnetism & Atmospheric Electricity, Johns Hopkins Press, Baltimore, Md.
Trans. Amer. Geophysical Union, 12th Ann. Meeting, National Acad. of Sciences, Washington, D.C.

Radio (General)
(R000)

Title	Series	Price
The principles underlying radio communication. 2nd ed., 1922. Signal Corps Radio Communication Pamphlet No. 40. (Textbook, 619 pages, with 300 illustrations, covering radio principles and practice).		$1.00
Classification of radio subjects, an extension of the Dewey Decimal System. (1930). Also published in Proc.I.R.E. 18, 1433-1456 (1930).	C385	OP
Electrical interference with radio reception. (1941).	LC660	Free
Sources of radio information. (1940).	LC611	Free
Radio communication, review for year. J. H. Dellinger. The American Yearbook, 1925, 1926, 1927, 1928, 1929.		

Laws; Regulations
(R007)

Engineering aspects of the work of the Federal Radio Commission. J. H. Dellinger. Proc. I.R.E. 17, 1326-1333 (1929).

Radio broadcasting regulation and legislation. J. H. Dellinger. Proc. I.R.E. 17, 2006-2010 (1929).

Radio Research
(R010)

Survey of current progress in radio engineering. J. H. Dellinger. J. Western Soc. Engineers 30, 39-49 (1925).

The International Union of Scientific Radio Telegraphy. J. H. Dellinger. Science 64, 638-639 (1926).

The International Union of Scientific Radio Telegraphy. J. H. Dellinger. Proc. I.R.E. 16, 1107-1112 (1928).

Some contributions of radio to other sciences. J. H. Dellinger. J. Franklin Institute 228, 11-42 (1939).

Radio Wave Transmission Phenomena (General)
(R113)

Title	Series	Price
A statistical study of conditions affecting the distance range of radio telephone broadcasting stations. C. M. Jansky, Jr. Tech. Pap.BS 19, 641-650 (1925).	T297	OP
Some studies of radio transmission over long paths made on the Byrd Antarctic Expedition. L. V. Berkner. BS J. Research 8, 265-272 (1932)	RP412	10c
Bi-monthly reports, Receiving measurements and atmospheric disturbances at the Bureau of Standards. L. W. Austin. Proc. I.R.E. 10, 239, 315, 421 (1922); 11, 3, 83, 187, 333, 579 (1923); 12, 3, 113, 227 (1924).		
Field intensity measurements in Washington on the Radio Corporation stations at New Brunswick and Tuckerton, N.J. L. W. Austin. Proc.I.R.E. 12, 681-692 (1924).		
Some transpacific radio field intensity measurements. L. W. Austin. Proc.I.R.E. 13, 151-157 (1925). J. Washington Acad. Sciences 15, 139-143 (1925).		
Facts and fallacies of radio wave transmission. J. H. Dellinger. Radio News 7, 1139, 1190, 1192, 1194 (1926).		
Application of radio transmission phenomena to the problems of atmospheric electricity. J. H. Dellinger. J. Wash. Acad. Sciences 16, 162-167 (1926).		
Apparatus for recording radio phenomena. T. Parkinson. Bul. Nat. Research Council, No. 61, 183-191 (1927).		
Summary of symposium on correlations of various radio phenomena with solar and terrestrial magnetic and electric activities. J. H. Dellinger. Bul. Nat. Research Council, No. 61, 192-197 (1927).		
Report of the Chairman of the Commission of Radio Wave Propagation. International Union of Scientific Radio Telegraphy. L. W. Austin. Proc.I.R.E. 16, 348-358 (1928).		
Bibliography on radio wave phenomena and measurement of radio field intensity. Proc.I.R.E. 19, 1034-1089 (1931).		
Note on reception of radio broadcast stations at distances exceeding 12,000 km. L. V. Berkner. Proc. I.R.E. 20, 1324-1327 (1932).		

Radio Wave Transmission Phenomena (General) (continued)

Title	Series	Price
Report of Committee on Radio Wave Propagation. J. H. Dellinger (co-author). Proc.I.R.E. 26, 1193-1234 (1938).		
Report of Commission II - Radio wave propagation, International Scientific Radio Union. J. H. Dellinger. Proc. I.R.E. 27, 645-649 (1939).		
The role of the ionosphere in radio wave propagation. J. H. Dellinger. AIEE Trans. 58, 803-822 (1939).		
Radio progress during 1938 - Wave propagation. J. H. Dellinger (Co-author). Proc. I.R.E. 27, 180-183 (1939).		
Radio progress during 1939 - Wave propagation. J. H. Dellinger (Co-author). Proc.I.R.E. 28, 108-112 (1940).		
A radio transmission anomaly; cooperative observations between the U.S.A. and Argentina. J.H.Dellinger and A. T. Cosentino. Proc. I.R.E. 28, 431 (1940). Also (in Spanish), Revista Telegrafica 29, 633 (1940).		
Radio progress during 1940.- Radio wave propagation. J. H. Dellinger (Co-author). Proc. I.R.E. 29, 103 (1941).		
Radio progress during 1941 - Radio wave propagation. J. H. Dellinger (Co-author). Proc. I.R.E. 30, 68-69 (1942).		

Fading
(R113.1)

Title	Series	Price
Cooperative measurements of radio fading in 1925. J. H. Dellinger, C. B. Jolliffe, and T. Parkinson. Sci.Pap. BS 22, 419-449 (1927).	S561	OP
Some observations of short-period radio fading. T. Parkinson. BS J. Research 2, 1057-1075 (1929) Also published in Proc.I.R.E. 17, 1042-1061 (1929).	RP70	OP
A radio method for synchronizing recording apparatus. T. Parkinson and T. R. Gilliland. BS J. Research 6, 195-198 (1931). Also published in Proc.I.R.E, 19, 335-340 (1931).	RP269	10c
Radio signal fading phenomena. J. H. Dellinger and L. E. Whittemore. J. Wash. Acad. Sciences 2, 245-259 (1921). Jahrbuch d. drahtlosen Telegraphie 24, 66-70 (1924).		
Concerning the nature of fading. J. H. Dellinger. Radio News 7, 270, 390 (1925).		

Fading (continued)

Results of cooperative measurements of radio fading. J. H. Dellinger, C. B. Jolliffe, and T. Parkinson. Radio News 8, 146 (1926).

Daily and Seasonal Variations
(R113.2)

Long-distance radio receiving measurements at the Bureau of Standards in 1923. L. W. Austin. Proc. I.R.E. 12, 389-394 (1924).

Long-distance receiving measurements in 1924. L. W. Austin. Proc. I.R.E. 13, 283-290 (1925). J. Wash. Acad. Sciences 15, 227-234 (1925).

Long-distance radio receiving measurements and atmospheric disturbances at the Bureau of Standards in 1925. L. W. Austin. Proc. I.R.E. 14, 663-673 (1926).

Long wave radio measurements at the Bureau of Standards in 1926, with some comparisons of solar activity and radio phenomena. L. W. Austin. Proc.I.R.E. 15, 825-836 (1927).

Long wave radio receiving measurements at the Bureau of Standards in 1927. L. W. Austin. Proc.I.R.E. 16, 1252-1257 (1928).

Long wave radio receiving measurements at the Bureau of Standards in 1928. L. W. Austin. Proc.I.R.E. 18, 101-105 (1930).

Long wave radio receiving measurements at the Bureau of Standards in 1929. L. W. Austin. Proc.I.R.E. 18, 1481-1487 (1930).

Long wave radio receiving measurements at the Bureau of Standards in 1930. L. W. Austin. Proc. I.R.E. 19, 1767-1772 (1931).

A method of representing radio propagation conditions. L. W. Austin. Proc.I.R.E. 19, 1615-1617 (1931).

Tables of North Atlantic radio transmission conditions for long wave length daylight signals for the years 1922 to 1930. L. W. Austin. Proc.I.R.E. 20, 689-298 (1932).

Low-frequency radio receiving measurements at the Bureau of Standards in 1931 and 1932. E. B. Judson. Proc.I.R.E. 21, 1354-1363 (1933).

Direction Variations
(R113.3. See also R325.31, R526.1, and R526.2)

Title	Series	Price
A suggestion for experiments on apparent radio direction variations. L. W. Austin. Proc.I.R.E. 13, 3-4 (1925).		
A new phenomenon in sunset radio direction variations. L.W.Austin. J. Wash. Acad. Sciences 15, No. 14, 317-319 (1925). Proc.I.R.E. 13, 409-412 (1925).		
Apparent night variations with crossed-coil radio beacons. H. Pratt. Proc.I.R.E. 16, 652-657 (1928).		

Meteorological, Geophysical, and Cosmic Effects
(R113.5)

Title	Series	Price
Comparison of data on the ionosphere, sunspots and terrestrial magnetism. E. B. Judson. J. Research NBS 17, 323-330 (1936). Also published in Proc.I.R.E. 25, 38-46 (1937).	RP913	5c
Sudden disturbances of the ionosphere. J. H. Dellinger. J. Research NBS 19, 111-149 (1937). Also published in Proc.I.R.E. 25, 1253-1290 (1937).	RP1016	15c
Radio signal strength and temperature. L. W. Austin and I. J. Wymore. Proc.I.R.E. 14, 781-784 (1926).		
The relations between radio and other natural phenomena. L. W. Austin. Proc. of the Third Pan-Pacific Science Congress 2, 1257-1263 (1926).		
On the influence of solar activity on radio transmission. L. W. Austin and I. J. Wymore. Proc.I.R.E. 16, 166-173 (1928).		
The relation of radio propagation to disturbances in terrestrial magnetism. I. J. Wymore. Proc.I.R.E. 17, 1206-1213 (1929).		
Note on a comparison of sunspot numbers, terrestrial magnetic activity, and long wave radio signal strength. L. W. Austin. J. Wash. Acad. Sciences 20, 73-74 (1930).		
Solar and magnetic activity and radio transmissions. L. W. Austin, E. B. Judson, and I. J. Wymore-Shiel. Proc.I.R.E. 18, 1997-2002 (1930).		
Solar activity and radiotelegraphy. L. W. Austin. Proc.I.R.E. 20, 280-285 (1932).		

Meteorological, Geophysical, and Cosmic Effects (continued)

Observations on long-delay radio echoes. J. H. Dellinger. QST 18, pp.42,88 of August (1934).

The ionosphere, sunspots and magnetic storms. S. S. Kirby, T. R. Gilliland, E. B. Judson, and N. Smith. Phys. Rev. 48, 849 (1935).

A new cosmic phenomenon. J. H. Dellinger. Science 82, 351 (1935).

A new radio transmission phenomenon. J. H. Dellinger. Phys.Rev. 48, 705 (1935).

A new radio transmission phenomena. J. H. Dellinger. QST 19, pp.21, 29 of Dec. 1935.

Confirmation of cosmic phenomenon. J. H. Dellinger. Science 82, 548-549 (1935).

The ionosphere, solar eclipses, and magnetic storms. S.S.Kirby, T. R. Gilliland, N. Smith, and S. E. Reymer. Phys.Rev. 50, 258-259 (1936).

A new solar radio disturbance. J. H. Dellinger. Electronics 9, pp.25, 34 of Jan. (1936).

New cosmic phenomena. J. H. Dellinger. QST 20, pp.8, 79 of Jan. (1936).

High-frequency fadeouts continue. J. H. Dellinger. QST 20, p.37 of June (1936).

Direct effects of particular solar eruptions on terrestrial phenomena. J. H. Dellinger. Phys. Rev. 50, 1189 (1936).

Ionosphere and magnetic storms. S. S. Kirby, N. Smith, T. R. Gilliland, and S. E. Reymer. Phys. Rev. 51, 992-993 (1937).

Radio fadeouts through 1936. J. H. Dellinger. QST 21, pp.35, 86, 88 of Feb. (1937).

Sudden ionospheric disturbances. J. H. Dellinger. Ter. Mag. & Atmos. Elec. 42, 49-53 (1937).

Sudden disturbances of the ionosphere. J. H. Dellinger. J. Applied Physics 8, 732 (1937).

Remark on S. Chapman's "Note on radio fadeouts and the associated magnetic disturbances". S. S. Kirby. Ter. Mag. & Atmos. Elec. 42, 420 (1937).

Meteorological, Geophysical, and Cosmic Effects (continued)

Title	Series	Price
Discussion of S. Chapman's "Note on radio fadeouts and associated magnetic disturbances." J. H. Dellinger. Ter. Mag. & Atmos. Elec. 43, 179 (1938).		
The nature of the ionosphere storm. S. S. Kirby, N. Smith, T. R. Gilliland. Phys. Rev. 54, 234 (1938).		
The sun and the ionosphere. J. H. Dellinger. Fifth Report of Commission on Solar and Terrestrial Relationships, p. 72 (1939).		

Eclipses
(R113.55)

Title	Series	Price
Radio observations of the Bureau of Standards during the solar eclipse of August 31, 1932. S. S. Kirby, L. V. Berkner, T. R. Gilliland, and K. A. Norton. BS J. Research 11, 829-845 (1933). Also published in Proc.I.R.E. 22, 247-264 (1934).	RP629	5c
Ionosphere studies during partial solar eclipse of Feb. 3, 1935. S. S. Kirby, T. R. Gilliland, and E. B. Judson. J. Research NBS 16, 213-225 (1936). Also published in Proc.I.R.E.24, 1027-1040 (1936).	RP868	5c
Predictions of normal radio critical frequencies related to solar eclipses in 1940. N. Smith. J. Research NBS 24, 225-228 (1940).	RP1279	5c
Observations radiotelegraphiques pendant l'eclipse du soleil du 10 septembre, 1923. (Radio observations during the eclipse of the sun, Sept. 10, (1923). L. W. Austin. L'Onde Electrique 3, 591-594 (1924).		
Radio observations of the ionosphere (at the 1940 solar eclipse in Brazil). T. R. Gilliland. Monograph of the National Geographic Society, Solar Eclipse Series, Number 2, 1942.		

Ionosphere
(R113.61)

Title	Series	Price
Kennelly-Heaviside layer height observations for 4045 and 8650 kc. T. R. Gilliland. BS J. Research 5, 1057-1061 (1930). Also published in Proc.I.R.E. 19, 114-119 (1931).	RP246	10c

Ionosphere (continued)

Title	Series	Price
Preliminary note on an automatic recorder giving a continuous height record of the Kennelly-Heaviside layer. T. R. Gilliland and G. W. Kenrick. BS J. Research 7, 783-790 (1931). Also published in Proc.I.R.E. 20, 540-547 (1932).	RP373	10c
Investigations of Kennelly-Heaviside layer heights for frequencies between 1600 and 8650 kc per second. T. R. Gilliland, G. W. Kenrick, and K. A. Norton. BS J. Research 7, 1083-1104 (1931). Also published in Proc.I.R.E.20 286-309 (1932).	RP390	10c
Continuous measurements of the virtual heights of the ionosphere. T. R. Gilliland. BS J. Research 11, 141-146 (1933). Also published in Proc. I.R.E. 21, 1463-1475 (1933).	RP582	5c
Note on a multifrequency automatic recorder of ionosphere heights. T. R. Gilliland. BS J. Research 11, 561-566 (1933). Also published in Proc.I.R.E. 22, 236-246 (1934).	RP608	5c
Studies of the ionosphere and their application to radio transmission. S. S. Kirby, L. V. Berkner, and D. M. Stuart. BS J. Research 12, 15-51 (1934). Also published in Proc.I.R.E. 22, 481-521 (1934).	RP632	OP
Multifrequency ionosphere recording and its significance. T. R. Gilliland. J.Research NBS 14, 283-303 (1935). Also published in Proc.I.R.E. 23, 1076-1101 (1935).	RP769	5c
Recent studies of the ionosphere. S. S. Kirby and E. B. Judson. J.Research NBS 14, 469-486 (1935). Also published in Proc.I.R.E. 23, 733-751 (1935).	RP780	5c
Characteristics of the ionosphere and their application to radio transmission. T. R. Gilliland, S. S. Kirby, S. E. Reymer and N. Smith. J. Research NBS 18, 645-667 (1937) Also published in Proc.I.R.E. 25, 823-840 (1937).	RP1001	10c

Ionosphere (continued)

Title	Series	Price
Maximum usable frequencies for radio sky-wave transmission, 1933 to 1937. T.R.Gilliland, S.S. Kirby, N.Smith, and S.E.Reymer. J. Research NBS 20, 627-639 (1938). Also published in Proc.I.R.E. 26, 1347-1350 (1938).	RP1096	5c
Application of vertical-incidence ionosphere measurements to oblique-incidence radio transmissions. N. Smith. J.Research NBS 20, 683-705 (1938).	RP1100	10c
Trends of characteristics of the ionosphere for half a sunspot cycle. N.Smith, T.R.Gilliland, and S.S.Kirby. J.Research NBS 21, 835-845 (1938).	RP1159	5c
Recombination and electron attachment in the F layers of the ionosphere. F. L. Mohler. J. Research NBS 25, 507-518 (1940). Also published in Phys. Rev. 57, 1071 of June 1, 1940.	RP1342	5c
Radio transmission and the ionosphere. (1940). Earlier edition republished in QST 24, p.32 of March (1940); and in T. & R. Bull. 16, 405; 28; 34-35; 69-70 (1940).	LC614	Free
Oblique-incidence radio transmission and the Lorentz polarization term. N. Smith. J. Research NBS 26, 105-116 (1941).	RP1363	5c
Field equipment for ionosphere measurements. T.R.Gilliland and A.S.Taylor. J.Research NBS 26, 377-384 (1941).	RP1384	15c
Kennelly-Heaviside layer studies. P. A. DeMars, T. R. Gilliland, and G. W. Kenrick. Proc.I.R.E. 20, 106-113 (1931).		
Ionospheric investigations. T. R. Gilliland. Nature (London) 134, 379 (1934).		
Averages of critical frequencies and virtual heights of the ionosphere observed by the National Bureau of Standards, Washington, D.C., 1934-1936. T. R. Gilliland, S. S. Kirby, N. Smith, and S. E. Reymer. Ter. Mag. & Atmos. Elec. 41, 379-388 (1936).		
Averages of critical frequencies and virtual heights of the ionosphere observed by the National Bureau of Standards, Washington, D.C. Published quarterly in Ter. Mag. & Atmos. Elec., March 1937 to March 1942.		

Ionosphere (continued)

Title	Series	Price
Critical frequencies of low ionosphere layers. N. Smith and S. S. Kirby. Phys. Rev. 51, 890-891 (1937).		
Characteristics of the ionosphere at Washington, D.C., Jan. to May 1937. T. R. Gilliland, S. S. Kirby, N. Smith, and S. E. Reymer. Proc.I.R.E. 25, 1174-1184 (1937).		
High-frequency radio transmission conditions, with predictions for _____. Published each month in Proc.I.R.E., Sept. 1937 to Dec. 1941.		
Predicted distance ranges for amateur radio communication. Published quarterly in QST from Sept. 1940 to Jan. 1942.		

Transmission Formulas; Distance Range (R113.7. See also R113, R120).

Title	Series	Price
Radio field intensity measurements at frequencies from 285 to 5400 kilocycles per second. S. S. Kirby and K. A. Norton. BS J. Research 8, 463-479 (1932). Also published in Proc.I.R.E. 20, 841-862 (1932).	RP429	5c
An analysis of continuous records of field intensity at broadcast frequencies. K.A.Norton, S. S. Kirby, and G. H. Lester. J. Research NBS 13, 897-910 (1934). Also published in Proc.I.R.E. 23, 1183-1200 (1935).	RP752	OP
Extension of normal-incidence ionosphere measurements to oblique-incidence radio transmission. N. Smith. J.Research NBS 19, 89-94 (1937).	RP1013	5c
Application of graphs of maximum usable frequencies to communication problems. N. Smith, S. S. Kirby T. R. Gilliland. J.Research NBS 22, 81-92 (1939)	RP1167	5c
Preliminary note on proposed changes in the constants of the Austin-Cohen transmission formula. L. W. Austin. Proc. I.R.E. 14, 377-380 (1926).		
Propagation of waves of 150 to 2000 kilocycles per second (2000 to 150 meters) at distances between 50 and 2000 kilometers. B. van der Pol, T. L. Eckersley, J. H. Dellinger, and P. LeCorbeiller. Proc.I.R.E. 21, 996-1001 (1933).		

Transmission Formulas; Distance Range (continued)

Title	Series	Price
Report of Committee on Radio Propagation Data. J. H. Dellinger, S. S. Kirby, and others. Proc. I.R.E. 21, 1419-1438 (1933).		
Skip distance calculation. N. Smith. QST 21, 47-48 of May (1937).		
The relation of radio sky-wave transmission to ionosphere measurements. N. Smith. Proc. I.R.E. 27, 332-347 (1939).		

Atmospheric Disturbances; Strays
(R114)

Our present knowledge concerning the atmospheric disturbances of radio telegraphy. L. W. Austin. Bul. Nat. Research Council, No. 41, 127-130 (1924).

The present status of radio atmospheric disturbances. L.W.Austin. Proc.I.R.E. 14, 133-138 (1926).

Direction determinations of atmospheric disturbances on the Isthmus of Panama. L. W. Austin. Proc.I.R.E. 14, 373-376 (1926).

Radio atmospheric disturbances and solar activity. L. W. Austin. Proc. I.R.E. 15, 837-842 (1927).

Antennas (General)
(R120. See also R325.31 and R525).

Title	Series	Price
Methods, formulas and tables for the calculation of antenna capacity. F. W. Grover. Sci.Pap. BS 22, 569-629 (1928).	S568	OP
Graphical determination of polar pattern of directional antenna systems. G.L.Davies and W.H. Orton. BS J. Research 8, 555-569 (1932).	RP435	5c
Radio field intensity and distance characteristics of a high vertical broadcast antenna. S. S. Kirby. J.Research NBS 16, 289-300 (1936).	RP874	5c
The possibilities of directional radio transmission. J.H.Dellinger. J. Franklin Inst. 204, 239-243 (1927).		

Radio Measurements and Standardization (General)
(R200)

Title	Series	Price
Radio instruments and measurements. 2nd ed. (1924, reprinted 1937).	C74	60c

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(R210. See also R555)

Title	Series	Price
Primary radio-frequency standardization by use of the cathode-ray oscillograph. Grace Hazen and Frieda Kenyon. Sci. Pap. BS 19, 445-461 (1924).	S489	10c
Theory of determination of ultra-radio frequencies by standing waves on wires. A. Hund. Sci. Pap. BS 19, 487-540 (1924).	S491	OP
An improved type of wavemeter resonance indicator. M. S. Strock. Sci.Pap. BS 20, 111-118 (1925)	S502	OP
Establishment of radio standards of frequency by the use of a harmonic amplifier. C. B. Jolliffe and Grace Hazen. Sci.Pap. BS 21, 179-189 (1926)	S530	OP
Method and apparatus used in testing piezo oscillators for broadcasting stations. E.L.Hall. BS J. Research 4, 115-130 (1930). Also published in Proc.I.R.E. 18, 490-509 (1930).	RP135	OP
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The standard wavemeters of the Bureau of Standards. E. L. Hall. Sibley Jour. of Engineering (Ithaca,N.Y.) 38, 123-126 (1924).		

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Title	Series	Price
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A system for frequency measurements based on a single frequency. E.L.Hall. Proc.I.R.E. 17, 272-282 (1929).		
The accuracy of the primary frequency standard of the Bureau of Standards. C.G.McIlwraith. Trans. Am.Geophysical Union. Twelfth Annual Meeting, p.29 (1931).		
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Title	Series	Price
Design of a portable temperature-controlled piezo oscillator. V.E.Heaton and W.H.Brattain. BS J. Research 4, 345-350 (1930). Also published in Proc.I.R.E. 18, 1239-1246 (1930).	RP153	OP
New piezo oscillations with quartz cylinders cut along the optical axis. A.Hund and R.B.Wright. BS J. Research 4, 383-394 (1930). Also published in Proc.I.R.E. 18, 741-761 (1930).	RP156	OP
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Quartz plate mountings and temperature control for piezo oscillators. V.E.Heaton and E.G.Lapham. BS J. Research 7, 683-690 (1931). Also published in Proc.I.R.E. 20, 261-271 (1932).	RP366	OP
A 200-kilocycle piezo oscillator. E.G.Laphan. BS J. Research 11, 59-64 (1933).	RP576	5c

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Title	Series	Price
Uses and possibilities of piezoelectric oscillators. A. Hund. Proc.I.R.E. 14, 447-469 (1926).		
Notes on quartz plates, air gap effect, and audio-frequency generation. A. Hund. Proc.I.R.E. 16, 1072-1076 (1928).		

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Title	Series	Price
Precision condenser calibration at radio frequencies. E. L. Hall and W. D. George. Electronics 7, 318-320 (1934).		

Measurements of Resistance, Voltage, etc. (R240)

Title	Series	Price
Resistance of conductors of various types and sizes as windings of single-layer coils at 150 to 6000 kilocycles. E.L.Hall. Tech.Pap. BS 21, 109-119 (1926).	T330	OP
Measurements at radio frequency (a differential transformer method). A. Hund. Elec. World 84, 998-1000 (1924).		
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Title	Series	Price
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(R281)

A study of the seasonal variation of radio-frequency phase difference of laminated phenolic insulating materials. J.L.Preston and E.L. Hall. Tech.Pap. BS 19, 225-235 (1925).	T284	OP
Some electrical properties of foreign and domestic micas and the effect of elevated temperatures on micas. A.B.Lewis, E.L.Hall, and F.R.Caldwell. BS J.Research 7, 403-418 (1931)	RP347	OP
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The radio direction finder and its application to navigation. F. A. Kolster and F. W. Dunmore. Sci.Pap. BS 17, 539-566 (1922).	S428	15c
A unicontrol high-frequency radio direction finder. F.W.Dunmore. Sci.Pap.BS 21, 25-35 (1926).	S525	OP
A portable radio direction finder for 90 to 7700 kilocycles. F.W.Dunmore. Sci.Pap. BS 21, 409-430 (1926).	S536	OP

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(R350)

A generator for audio currents of adjustable frequency with piezoelectric stabilization. A. Hund. Sci.Pap. BS 22, 631-637 (1928).	S569	10c
Note on a piezoelectric generator for audio frequencies. A.Hund. BS J. Research 2, 355-358 (1929).	RP40	OP

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Title	Series	Price
An improved audio-frequency generator. E.G. Lapham. BS J. Research 7, 691-696 (1931). Also published in Proc.I.R.E. 20, 272-279 (1932).	RP367	OP
The standard frequency set at WWV. H.J.Walls. QST 8, pp.9-12 of Oct. (1924).		
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Note on piezoelectric generators with small back action. A.Hund. Proc.I.R.E. 15, 725-726 (1927).		

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(R358)

Title	Series	Price
Safety rules for radio installations. National Bureau of Standards Handbook. (1939).	H35	10c
Radio and safety. C.B.Jolliffe. Supplement, Annals of the American Academy of Political and Social Science 142, 67 (1929).		

Receiving Apparatus (General)
(R360)

Title	Series	Price
A quantitative study of regeneration by inductive feedback. C.B.Jolliffe and J.A.Rodman. Sci. Pap.BS 19, 419-428 (1924).	S487	OP
Some methods of testing radio receiving sets. J.L.Preston and L.C.F.Horle. Tech.Pap.BS 18, 203-228 (1924).	T256	OP
Unicontrol radio receiver for ultra high frequencies using concentric lines as interstage couplers. F.W.Dunmore. J.Research NBS 15, 609-618 (1935). Also published in QST 20, 21-23 of Feb.(1936).	RP856	OP

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(R363)

Title	Series	Price
A method of studying electrode potentials and polarization. (Use of electron tube amplifier). H.D.Holler. Sci.Pap.BS 20, 153-166 (1925).		

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Title	Series	Price
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Note on radio-frequency transformer theory. H. Diamond and E.Z.Stowell. Proc.I.R.E. 16, 1194-1202 (1928).		

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(R365)

Title	Series	Price
Note on telephone receiver impedance. E.Z.Stowell. Proc.I.R.E. 13, 245-249 (1925).		

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(R382)

Title	Series	Price
Radio-frequency resistance and inductance of coils used in broadcast reception. A.Hund and H.B. DeGroot. Tech.Pap.BS 19, 651-668 (1925).	T298	OP

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(R520)

Title	Series	Price
A directive type of radio beacon and its application to navigation. F.H.Engel and F.W.Dunmore. Sci.Pap.BS 19, 281-295 (1924).	S480	5c
Uses of radio as an aid to air navigation. J.H. Dellinger. Papers of International Civil Aeronautics Conference (Government Printing Office, Washington, D.C.), pp.595-604, Dec. 12-14, 1928. Also published in J.Am.Inst.Electrical Engineers 48, 105-109 (1929).	-	$1.00
Receiving sets for aircraft beacon and telephony. H. Pratt and H. Diamond. BS J. Research 1, 543-563 (1928). Also published in Proc.I.R.E. 17, 283-305 (1929).	RP19	OP
Engine ignition shielding for radio reception in aircraft. H.Diamond and F.G.Gardner. BS J. Research 4, 415-424 (1930). Also published in Proc.I.R.E. 18, 840-861 (1930).	RP158	OP
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Title	Series	Price
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(R525. See also R120)

Title	Series	Price
Characteristics of airplane antennas for radio range-beacon reception. H. Diamond and G. L. Davies. BS J. Research 6, 901-916 (1931). Also published in Proc.I.R.E. 20, 346-358 (1932).	RP313	OP

Aeronautic Radio Beacon Systems
(R526.1. See also R520).

Title	Series	Price
A directive type of radio beacon and its application to navigation. F.H.Engel and F. W. Dunmore. Sci.Pap. BS 19, 281-295 (1924).	S480	5c
Design of tuned reed course indicators for aircraft radio beacon. F.W.Dunmore. BS J. Research 1, 751-769 (1928).	RP28	OP
Unidirectional radiobeacon for aircraft. E. Z. Stowell. BS J. Research 1, 1011-1022 (1928).	RP35	OP
A course shift indicator for the double modulation type radio beacon. H. Diamond and F.W. Dunmore. BS J. Research 3, 1-10 (1929).	RP77	5c

Aeronautic Radio Beacon Systems (continued)

Title	Series	Price
Applying the visual double-modulation type directive radio beacon to the airways. H. Diamond. BS J. Research 4, 265-287 (1930). Also published in Proc.I.R.E. 17, 2158-2184 (1929).	RP148	10c
A 12-course radio range for guiding aircraft with tuned reed visual indication. H.Diamond and F.G.Kear. BS J. Research 4, 341-369 (1930). Also published in Proc.I.R.E. 18, 939-962 (1930).	RP154	OP
Applying the radio range to the airways. F.G.Kear and W.E.Jackson. BS J. Research 4, 371-381 (1930). Also published in Proc.I.R.E. 17, 2268-2282 (1929).	RP155	OP
Development of the visual type airway radio beacon system. J.H.Dellinger, H.Diamond, and F.W. Dunmore. BS J. Research 4, 425-459 (1930). Also published in Proc.I.R.E. 18, 796-839 (1930).	RP159	OP
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Aeronautic Radio Beacon Systems (continued)

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Field intensity characteristics of double-modulation type directive radio beacon. H.Pratt. Proc.I.R.E. 17, 873-878 (1929).		
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(R526.2)

A radio direction finder for use on aircraft. W.S.Hinman, Jr. BS J. Research 11, 733-741 (1933).	RP621	OP

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(R526.3)

A radiobeacon and receiving system for blind landing of aircraft. H. Diamond and F.W. Dunmore. BS J. Research 5, 897-931 (1930). Also published in Proc.I.R.E. 19, 585-626 (1931).	RP238	OP
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Note on the synchronization of broadcast stations WJZ and WBAL. K.A.Norton. Proc.I.R.E. 22, 1087-1089 (1934).		

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(R555)

Title	Series	Price
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Title	Series	Price
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